

Large Percentage of Class of 1937 Have Bought Ties

More Than Ninety-five Per cent
of Class Rallies to
Display Spirit

MORE THAN 470 TIES SOLD

Tribunal Created by Freshman
Rules Committee Will
Try Offenders

More than 95% of the freshmen have bought the required Cardinal and Gray ties, according to tentative registration figures and the latest estimates on the number of ties sold, the Class of '37 almost completely falling into line, and even some of the girls parading about the grounds with ribbons of Technology colors as their insignias.

This display of class spirit is much greater than it has been in previous years. Only 79% of the freshmen in 1932 bought the required ties, that is, 490 out of the enrolment of 620. Last year the percentage rose to 82%, 460 sales being made against an enrolment of 564.

On registration day 422 ties were sold, and up to one o'clock yesterday the sales at the coop had increased

Frosh Co-eds Evidence Class Spirit; Wear Bows

Freshman co-eds are displaying rare class spirit this term, as evidenced by the number that wear their class colors in the halls of the Institute. Being unable to wear the regulation four-in-hand ties, they have gone to the trouble of shopping around Boston to match the colors of the tie in material with which to make small bows which they now wear.

They have not had these bows forced upon them by strong-armed Quadrangle men on registration day, as have the male students. On the other hand, at their own initiative, they have purchased these bows, in order to prove their loyalty to the class.

the figure to more than 470. The class of '37, having shown its spirit to this extent, seems to have a much better chance of walking off with the honors on Field Day than did last year's freshman.

Tribunal Seen Idle

The tribunal created by the Freshman Rules Committee for the more effective enforcement of freshman rules will have a comparatively simple job of bringing erring freshmen to justice, especially if the remaining tie-less men buy their halters and continue to wear them until the end of the rules period.

Last year much controversy was caused by the fact that a large percentage of the freshmen discarded their ties directly after Field Day despite the fact that the first year men lost the Day. A list of the offenders was published in THE TECH, and the Quadrangle Club attempted measures to enforce the law. In one case an unsuspecting law-breaker was aroused at the gruesome hour of three o'clock in the morning by a group of upperclassmen, taken on a fifteen-mile auto ride, and ejected at the end of the breezy drive to shift, if he could, for himself.

RUSHING AT CAMP ELIMINATED THIS YEAR SAYS T.C.A.

G. Peter Grant, '35, Camp
Director, Reports That All
Freshmen Returned
on Busses

ACTION SETS PRECEDENT

Grant Credits Fraternities for
Success Despite Necessity
for Armed Guards

Fraternity rushing at Freshman Camp was entirely eliminated this year, according to a letter received from G. Peter Grant, camp director. Grant reported that all freshmen who attended the camp had returned with the group on Monday morning, none having returned the night previously in private cars as had been the case at past camps.

This condition was brought about this year, by the T.C.A. taking matters into their own hands to stop the illegal and annoying practice which had marred the outings in previous years. Until this year, the Interfraternity Conference to which most Technology fraternities belong, had merely issued statements advising its members that rushing at the camp was not to be carried on, and would be looked upon with disfavor by the Conference. No particular effort, however, was made to enforce these edicts with the result that hordes of fraternity men would descend on the camp on Sunday night and carry back with them certain of the first year men, thus defeating in some measure the purpose of the camp.

Guards Posted

This year, due to a large part to the vigilance of G. Peter Grant, '35, the director, guards were posted at the gates of the camp and allowed no strangers to enter without signed passes from the T.C.A. The result was that the camp was unmolested by fraternity representatives, and as Grant says, "the camp enjoyed a

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ACTION OF ARTIFICIAL WAVES ON MINIATURE SEA WALL IS STUDIED

Professor Reynolds Examines
Erosion of Atlantic Seacoast
with Synthetic Ocean in River
Hydraulics Laboratory.

Among the latest developments in the research work being conducted at the Institute is the investigation of the action of storm waves upon the Atlantic seacoast. The storm waves of the Atlantic Ocean, which cause millions of dollars' damage to property and land along the eastern coast of the United States, are now being reproduced in a miniature sea at the Institute. In this little ocean, with its concrete shore line and sandy beaches, Professor Kenneth C. Reynolds of the department of civil engineering is studying the behavior of waves with the object of designing a sea wall which will hold the storm waves at bay and prevent erosion of the land, costly flooding, and property damage.

Year after year, storms disrupt transportation lines, destroy or flood homes in seacoast towns, and wash away valuable land without restraint. Although man has built seawalls of various shapes of stone and concrete,

the power of the tides, continue to take an annual toll in property damage amounting to millions of dollars. The menace of the sea has become so serious that engineers familiar with conditions regard this problem as one of great public concern.

Studies First of Kind

The scientific studies of sea waves now being made in the River Hydraulic Laboratory at the Institute are believed to be the first of their kind. The investigation employs the new technique of the hydraulic engineer, who has found that he can reproduce conditions of nature in miniature scale and make observations impossible by any other means. When he finds a solution for his problem he simply applies it in full scale to the actual conditions of nature, with a high degree of assurance that it will prove effective. By this means the design of dams, the control of rivers and the maintenance of channels in harbors are being the ocean waves, driven by gales and studied with great success.

The Institute's laboratory ocean is 20 feet long and six feet wide. A wedge-shaped plunger moving up and

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THE TECH'S Mass Meeting Will Be Held on Friday at 5 P. M.

The annual THE TECH smoker, originally announced for Thursday at five o'clock, has been changed to Friday at the same time. All freshmen are invited to attend. Speakers for the occasion will be Arthur W. Walker, '82; Arthur D. Little, '85, head of the chemical firm bearing his name; Isaac W. Litchfield, '85, composer of "Take Me Back to Tech"; and Frederick G. Fassett, Jr., instructor of the freshman journalism course.

NEW STUDENTS TO ATTEND ALL-TECH SMOKER ON OCT. 6

Dunning Heads Committee and
Stockmayer Is Chairman
of the Ushers

Welcoming all the new men to the Institute, the Undergraduate Association will conduct its annual All-Technology Smoker in the main dining hall of Walker Memorial on Friday evening, October 6. At this time, all freshmen and transfers will be given a free turkey dinner and entertainment.

Already the committee, headed by John B. Dunning, '34, has started work to make this a memorable occasion. Among the speakers will be Robert E. Rogers, Professor of English; Dr. Allan W. Rowe, President of the Alumni Association; Professor William C. Greene, dramatic coach for Tech Show; and Mr. Frederick G. Fassett, Jr., advisor of THE TECH. They will speak about the various activities at Technology.

Walter H. Stockmayer, chairman of the ushers, is making plans to have tickets distributed gratis to the freshmen and transfers in the Main Lobby on Thursday and Friday, October 5 and 6. These tickets are required for admission to the smoker.

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THE TECH WILL REACH EVERY DORM RESIDENT

Contract Made by Dormitory
Committee; Will Return
Paid Subscriptions

In order to allow dormitory residents greater facilities for learning current affairs in the dormitories, the Dormitory Committee has recently made a contract with THE TECH whereby every resident will receive a copy of the paper gratis on the date of each issue. Those residents who have already purchased subscriptions may obtain a refund of the full amount by applying at the business office of THE TECH.

News originating in the dormitories will now be more expeditiously circulated than heretofore, when the "Dorm Rumor" was its vehicle of expression. Starting in an early issue THE TECH will carry a dormitory column containing news from the residences exclusively.

Over 600 residents will receive copies under the new contract. They incur no obligations under the system for the subscriptions are covered by the dormitory tax which each man must pay.

HIGH PRESSURE USED IN ALCOHOL SYNTHESIS WORK

Dr. P. K. Frolich, Receiver of
Graselli Medal, Led
Work in 1929

Among the recent research experiments of the Institute stands the attempt of the high pressure laboratory to synthesize the higher alcohols. In Building 19, situated behind the Aeronautical laboratory, tests have been carried out during the last few months to determine if it were possible to form alcohols by hydrating the olefins under high pressure.

This division of the Chemistry department, instituted in 1925 by Professor Whitman and sponsored since by the Standard Oil Development Company has done much in high pressure research, of both publishable and confidential nature. While under the direction of Doctor P. K. Frolich, who superintended the work until 1929, the laboratory experimented chiefly in the synthesis of methanol from water gas, using high pressure and catalysts. As a result of his fine work in the latter field, Dr. Frolich was awarded the Grasselli medal.

Following this came considerable work on the mechanism of the

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Upperclassmen Start Plans for Field Day Events

Stockmayer and Bell, Junior and
Senior Prexies, Will Lead
Lower Class Teams

EVENT ONE MONTH AWAY

Present Form of Clash Replaced
Cane Rush in 1902; Vents
Class Feelings

Junior class officers, under the leadership of Walter H. Stockmayer, their president, have already begun organization of the freshman forces for Field Day, which will take place on October 27. Richard Bell, Senior president, is also reported to have begun Sophomore mobilization.

As Field Day is only one month from today, organization will have to be done expeditiously, and the members of the various teams face a lot of intensive practicing.

Although the class of 1937 will probably have the advantage of numbers this year as is usually the case, the class of 1936 has learned a bitter lesson from its experience of last fall when it was defeated in every event and will undoubtedly present a formidable set of teams.

Field Day Supplants Cane Rush

Field Day, in its present form, was first conducted in 1902, following the death of a freshman the previous year during the all too rough Cane

(Continued on Page 3)

Haines Addresses Cheering Throng at Crew Meeting

Dunning Thrills Freshmen With
a Promise of a Season
of Victories

To a cheering crowd of awe-stricken freshmen and blasé upperclassmen, yesterday Bill Haines, crew coach, painted in glowing word pictures the joys of participating in Technology's number one sport.

Wine, women, and song together with the use of tobacco were strongly advised against by the several speakers, for those stalwart gentlemen making this their sport. Guy Haines, captain of the victorious hundred and fifties, in a voice suggesting that of his famous father, ended the pep talk by saying that the lily white

(Continued on Page 2)

Enrolment Exceeds Earlier Estimates

Although definite figures have not yet been compiled, registration officials have revealed that the enrollment at the Institute will be considerably higher than anticipated, although it will still come slightly below that of last year. Not only in new students, but especially among the upper classes, it was found that many men who had indicated they would not be able to return this year for financial reasons are coming back. Last minute decisions of parents to make the necessary sacrifices are held responsible for the increase.

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GETTING STARTED

AS the academic year opens the new man finds himself at the beginning not only of four years of scholastic work, but at the start of his undergraduate career. It is needless to point out here that the success in latter life is based on a ground-work which is a combination of outside activities and studies. Many a freshman fails to realize, however, that the opportunities in activities which he encounters in his first year may never be repeated. Advancement in an activity is based on achievement, and the man who enters as a freshman will be farthest ahead when he becomes a Senior.

The value of an activity to the individual is measured by the amount of effort which he puts into it. An outside activity can succeed in diverting the students mind from the daily run of his school work only if he can become so interested in it as to give his best efforts. It would be well, then, for the new man to examine the nature of the various activities which offer a real opportunity for an outside interest. These include the publications, the athletic teams, and the professional societies. The men in these activities start as freshmen and are advanced according to their ability and effort as they reach the upper classes.

Whatever the activity, however, it is to be emphasized that it is an addition only, to the student's main work at the Institute. The place of activity in undergraduate life is well brought out by Professor Woods' advice to the freshmen, "... To carry on a successful career at the Institute a man must be willing to work. There is a large system of undergraduate activities, and by all means a man should take part in them, but he should not forget relative values. When it comes to a show-down, he must remember what he is here for, and should conduct himself accordingly."

A SCHEME FOR GOOD GOVERNMENT

AN Associated Press dispatch from Havana, dated Sept. 22, says—"The newspaper, 'Informacion,' understanding that obligations of the Platt amendment should weigh equally on Cuba and the United States, published today the following:

"The Cuban Department of State is following with interest the course of events on Manhattan Island, where many Cuban citizens reside, and although it believes the situation has improved considerably, the last Communist outbreak leads it to believe that the tension continues.

"Secretary of State Del Rio Balmaseda believes that for the moment it will not be necessary to land troops, but precautionary concentration of Cuban Naval units continues in order to avert any danger.

"Recognition of the Government at Washington will be delayed until it has managed to put down disturbances. Meanwhile the Cuban State Department will maintain an attitude of expectancy."

It would seem that a misunderstanding has arisen about how the Platt Amendment should function. We suggest this solution. Let each country have the right to intervene in each other's affairs on alternate years. For example, let the United States practice intervention in Cuba in 1933, 1935, 1937, etc., and let Cuba intervene in the United States during 1934, 1936, 1938, etc.

Truly this would be an ideal arrangement. Consider how the affairs of gang ridden Chicago would benefit from martial law maintained by disinterested Cuban marines. And surely the Cuban Government would guarantee the people of Chicago impartial elections. New York City is in pressing need of a fiscal dictator with full power to reorganize the municipal budget. A Cuban administrator is the ideal solution.

'Tis said that a country can always manage another country's affairs better than its own. We have been grossly unfair to ourselves in the past, unduly benign to the Cubans. It seems as though the American people deserve good government for at least one half of the time.



Hard Hearted Hannah

Freshman camp exceeded our wildest hopes. In fact, it wasn't the freshmen who did the exceeding, but sundry members of the Department of Freshman Exhorters and Destiny Guiders, by which we mean the English instructors, who will bull and bully the innocent neophyte through his first year of infinitive splitting.

As a matter of fact it was one youthful member of this uplifting department of the Institute's education system who prated us as sorry an example of Technology training as we have ever heard.

The tale goes that a certain '31 grad was pursuing his devious way in the Boston Elevated, by which one knows he was in the subway. There approached a snuffing figure, down and out, a man on his uppers, reduced to the pitiful extremity of begging for sustenance.

"Will ya gimme a nickel for a cup of coffee?" sniveled the mendicant.

The would-be engineer appraised the visitor coldly for a moment or two. "All right," he replied, "Where's the coffee?"

Such a man, we are positive, must have taken a special course in Dead-Men's-Eye-Penny-Lifting.

—O—

Pride Goeth

In point of fact, the same purveyor of this dolorous tale had barely finished bragging before the assembled freshmen that Pete Grant, then doing the honours for introductions, was one of his products when the unfortunate Pete arose to introduce an alumni.

It is at such a point as this that the Lounger feels, with a terrible acuteness, his responsibility to society and so withholds the vital Name.

—O—

Love Euphony Thing

While we are still harping about announcers and announcements, we must mention the results of one of the games at Camp in which tents five to eight beat tents one to four, three to two. This is almost too much.

—O—

Personal

Only at rare intervals does the Lounger descend to the level of a personals column, but several of the boys from a certain house on Bay State road (no names please) have appealed to us to place a message from one of their brethren with such touching fervor that we really hadn't the heart to refuse.

The message:

Dear Sally,
I forgive all. Please come back.
C. J. H., Jr.

POTTAGE AND SHORT SELLING MIX WELL

The art editor of T.E.N., if there is such a person, has named the cover of T.E.N.'s first issue Back to Work. The picture, too, is suggestive of Technology to some persons.

Of course everyone who pays the slightest attention to things of importance knows that the leading article is "A Defense of Short Selling," by Richard Whitney. Just as Mr. Whitney says, when Esau sold his birthright to his brother Jacob for a mess of pottage, he was making a short sale. We add nothing more. Mr. Whitney, being an able man, makes a good defense and almost convinces us.

Interesting to us at least is the article on the modern cruiser. A few of the newer trends in design are mentioned. Generally the article seems to show that disarmament treaties are effective to some extent, contrary to popular belief.

We close with this comment: the October issue of T.E.N. is good, and we hope to see many like it.

P. G. H.

Summer Visitors Examine Institute

Naval Officers and Motion
Picture Celebrities,
Among Guests

More visitors have come to see the Institute this summer than have for a number of years previously, according to Mr. William Jackson of the Information Office. An average of three or four families per day stopped by while traveling in this section of the country, and were conducted through the many interesting parts of Technology.

A group of forty-nine men from Annapolis went through the Institute on one occasion. Since the number of appointments to the naval academy has been reduced recently, several of the group have registered for courses of study here. A group of Japanese naval officers were also here during the summer.

The crew of Admiral Byrd's ship came over from their quarters here in Boston one day and were shown through the laboratories and museums of the Institute. At the beginning of the summer a crowd from the Rotarians Convention visited the Institute.

Visit from Helen Hayes

Several Hollywood celebrities, including Helen Hayes and Jack Pickton, stopped here in one party. They were quite impressed with Technology and the work which is being done here. A Mexican government secretary and his family were among the six hundred or more visitors at the Institute.

A large number of those who were interested in the school had seen the Technology exhibit at the Century of Progress, and, in passing by, dropped in to see the place from which the exhibits were sent. They were all very courteously treated at the Administration Office, and were given various folders and bulletins with information of the work which is carried on at the Institute and photographs of the grounds.

Several had seen the working model of the Van de Graaf high voltage machine at the World's Fair, and pictures of the large machine. Thinking that the original was at the Institute, they inquired for it while they were here. Quite a number, disappointed at not finding it, were given directions how to reach Round Hill, on the Cape, and drove down to see it there.

Everyone Cheerful

Summer visitors are not, as a rule, very active, but those who came this year were an exceptionally cheerful lot. They showed interest in practically everything which was shown to them, and left with a very good idea of the Institute. It was noticeable that when they entered the main building and were welcomed to the Institute, the impression left was one of pleasure, and that they considered Technology as a very pleasant and very efficient place to pursue scientific and engineering study.

According to Mr. Jackson, there have been a number of visitors who said that they had met people who visited here earlier in the summer, and told them not to miss the Institute if they came anywhere near. They were well met, conducted through the Institute, and sent away happy.

The dean of Creighton University recently posted this notice on his door: "Get your grades and pass out quietly."—Simmons News.

RUSHING IN CAMP IS ELIMINATED

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more wholesome atmosphere than has in past years."

The full text of Grant's letter appears below:

I am very happy to announce that fraternity rushing was entirely absent from the Eighth Annual Freshman Camp. By actual count all freshmen returned Monday morning in the buses, thus setting a precedent in camp history. And not only was there an absolute absence of fraternity activity by the camp personnel, but there was none of the usual "visiting" by outsiders.

As a direct result of this absolute freedom, the camp enjoyed a more wholesome atmosphere than it has in past years.

To the fraternities themselves belongs the credit for this successful camp. Without their cooperation, the camp could never have benefited the freshmen as it has. And it is my earnest hope that in years to come the fraternities will grant the future camp directors the same cooperation which I have enjoyed this year.

Yours very truly,

G. PETER GRANT,
Camp Director.

Haines Addresses Cheering Throng at Crew Meeting

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purity of his crew needed no such good advice.

Exorts Freshmen

Al Dunning the coach of freshman crews told the new men in no uncertain terms just what was expected of the freshman crew; that they must defeat Navy, Princeton, Harvard, Groton, ad infinitum. The freshmen indicated by the volume of their applause that that was just what they intended to do, given the opportunity.

Varsity men were told by Bill Haines that, although he was the friend of them all, he would show no mercy in the relentless manner in which he would throw some out and live up to "may the best man win." John Westfall, '34, captain of the varsity, also spurred the men onward for a victorious season. Competition for varsity should be keen since the whole of last year's crew is back and all of these husky men except Phil Cook, graduate, should be out to retain their old positions.

Practice for freshmen and varsity alike begins at five o'clock tonight and last year's fifties are to arrive at the boathouse at four if possible. The men were instructed to obtain their locker and towel cards for the year at the superintendent's office in the basement of Building Three. Rowing trunks and other crew supplies can be purchased at the boathouse at cost. It is necessary to mention the need for compliances with rules concerning medical and swimming examinations for crew applicants.

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CLASSIFIED COLUMNS

MINIATURE SEA WALL IS STUDIED

(Continued from Page 1)

down at one end creates the miniature waves. From the moment they start rolling shoreward to break upon a sandy beach and hurl themselves against the tiny seawall, their behavior is observed. As they break against the seawall and toss spray several feet high, which is equivalent to from 25 to 60 feet in the majestic scale of nature, they carry sand and pebbles beyond the wall just as the sea does on innumerable Atlantic seaboard beaches.

Sand Measured

The experiment continues for a time and then the amount of sand which has been carried over can be measured. With the same storm conditions a different height of wall or a change in shape of the face may be tried until the best design for a given beach section can be obtained. Waves from various directions and for different high tides will be imitated so as to thoroughly investigate the entire subject.

In the tests thus far made, the sand often has become undermined near the wall just as it does in nature. Methods for remedying this are to be investigated as well as the effect of breakwaters or other forms of offshore protection.

The best design in the miniature having been found, the results will be transferred to nature, thus eliminating the great waste now involved in trying out and altering this or that expensive scheme in a vain attempt to decrease this enormous annual property damage.

Upperclassmen Plan Field Day

(Continued from Page 1)

Rush. It was planned such that the two lower classes would be able to vent their natural animosity for each other in a manner which would no longer seriously endanger the lives of the participants.

There are five events scheduled to take place on Field Day, in addition to the numerous minor encounters that are inevitable in a spirited clash. Each of these events is assigned a certain number of points, and upon the winning of the majority of points depends whether or not the freshmen will have to wear their regulation ties after January 1.

These events, with the number of points assigned to them, are:

Event	Points
Football Game	4
Crew Race	3
Relay Race	3
Tug of War	2
Glove Fight	1
Total	13

Although the glove fight is assigned only one point, the moral victory goes to its winner, even though the opposing class wins all the other events. This comes about because the whole class engages in the fight, whereas only a small portion of it participates in the other four events.

Egg Fight Important

Probably one of the most important events of the day, which is not scheduled by the committee in charge, is the traditional egg fight. This event, while not sanctioned by the administration, invariably takes place when a spirited class is engaged in the activities. Last year over forty cases of questionably ripe eggs passed between the freshman and sophomore stands through the aerial route during the course of the afternoon. An abundance of over-ripe fruit usually makes its appearance among the flying eggs also.

Practice for the organized events will begin within a few days, as soon as coaches from the upper classes have been chosen. In an early issue of THE TECH, the first practices for the events will be announced. Until that time it is up to the classes themselves to work up spirit in preparation for the day.

SPORTS COMMENT

Several promising freshman athletes were discovered at Camp Massapoag during the various sports events. Of the track men, by far the most prominent was Jim Thompson, a tall and lanky field-event man, who won three of the five first places in the meet conducted by Oscar Hedlund. Thompson heaved the twelve-pound shot well over forty feet, and also managed to eclipse the field easily in the broad and high jumps.

Another star was Gordon B. Wilkes, Jr., son of the well-known Institute physics professor, who captured the dash event from a large group of contestants. The Fifth winner was Faatz in the distance run. A large number of men interested in crew also showed that the class of 1937 bids fair to become prominent in Institute athletics.

The annual fall tennis tournament is due to get under way next week, and will probably prove as full of upsets as ever. Several high-ranking stars of a year ago are back at school, and should add to the interest if they enter. Among this group are Ex-captain Fred Feustel, a finalist last year, Bob Winters, and Jim Eder, the latter two having reached the semi-final bracket.

Several members of last year's freshman Field Day crew have expressed their intention of going out for their class football team this fall, since the Sophomore Field Day boat is always composed of 150-pounders. The addition of such huskies as Johnson, Briggs, Kuryla, and Brooks should turn the rather inefficient aggregation of last fall into a powerful football team.

The large turnout of freshmen at the crew mass meeting yesterday afternoon must have been encouraging to freshman coach Al Dunning, who hopes to have a winning crew this year. Approximately one hundred and twenty-five freshmen heard pep talks given by Bill Haines, Al Dunning, Johnny Westfall, Arthur King and Guy Haines. Compared to the sixty-five men of the class of 1936 that turned out for crew last year, it shows that the freshmen have more interest in the event and are enthusiastic about beating the sophomores on Field Day.

Seasons Found to Influence Rate of Child Growth

Dr. Turner Discovers Boys Gain Weight More Slowly in the Summer

That healthy children gain weight more slowly during April, May and June than at any other time of year is revealed in a study of seasonal fluctuations in rates of child growth, recently completed by Dr. Clair E. Turner and members of the Public Health Research Laboratory of the Institute.

This research, which included periodic measurements of several thousand Greater Boston school children, was made with special reference to seasonal changes in the weights of clothing worn.

Children were found to gain weight fastest in the fall and early winter months, particularly during October. In the southern hemisphere these seasons of fast and slow growth are reversed. The study also indicates that many children gain height most rapidly during that time of year when their increase in weight is slow. With the onset of warm weather, boys were found to gain weight more slowly than girls, probably because of the sharper rise in boys' summer activities.

Seasons Affect Growth

This fluctuation in growth rate Dr. Turner attributes largely to seasonal changes in habits of living, especially in diet and amount of activity. Children with better health habits showed less growth change with the seasons than did other groups.

Dr. Turner's conclusions are of particular significance because of the close relationship existing between a child's normal growth and his good health. Among the many factors previously known to affect the growth rate are family traits, racial stock, nutrition, the work of certain glands, health habits and activity, and freedom from illness and physical defects. Dr. Turner now adds changes of season to the list of definite factors in child development.

Customer: Chicken croquettes, please.
Waiter (one time baseball umpire): Fowl ball!

—The Bradley Tech.

CANDIDATES FOR FRESHMAN TRACK ASKED TO REPORT

Hedlund Starts Work for Field Day Relay and Cross Country Teams

With the first cross-country meet of the season about three weeks away, Coach Oscar Hedlund is anxious that all freshmen interested in distance running report to the track house as soon as possible. The varsity squad, under Captain Bob Mann, is already training for the coming grind.

In addition to cross-country men, candidates for the Field Day relay teams are asked to report. The teams are composed of twelve men, each of whom runs 220 yards. Class numerals will be awarded the winning combination.

Freshmen should also take note of the fact that they may substitute track work for their prescribed Physical Training course, which begins immediately after Field Day, October 27.

Love Making Course

A course in love making has been added to the curriculum at Middlebury College. Members of the faculty, first, second, and third year students have enrolled.—The Technician.

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KENDALL SQUARE OFFICE



HARVARD TRUST COMPANY

TENNIS SIGNUPS END ON THURSDAY

Fall Tournament Will Begin Friday; Many Veterans Have Entered

Tennis will be one of the first sports to get under way this year at the Institute when the fall tournament begins on Friday, with one of the biggest fields in recent years. Many close battles are promised between last year's seeded players. A large silver cup will be presented to the winner of the tournament.

All men who are registered as students, including graduates, are eligible to compete. Signups, which will close on Thursday, may be made on the bulletin board opposite the cashier's office.

New men who enter the tournament will have to compete against such seeded players as Fred Fuestal, Bob Winters, Gilbert Hunt, Jim Eder, Joe Fisher, Scott Rethorst, Charlie Feuchter, Ed Lucas, Irving Newman and Norris Ruchman, most of whom were members of last year's varsity or freshman teams.

INFIRMARY LIST

U. D. Consuegia, '37
W. O. Nichols, '37

Shell fish that produce a low, flute-like sound are found in Ceylon.

FRESHMEN RECEIVE ADVICE AT MEETING

The entire freshman class attended the freshman meeting on Monday afternoon, which was presided over by Dean Harold E. Lobdell, '17, and were formally greeted to the Institute by prominent members of the Faculty, including Vice-President Vannavar Bush and Professors William Emerson, Frederick S. Woods.

Professor Woods told the freshmen, in part, "... To carry on a successful career at the Institute a man must be willing to work more or less steadily. Technology is not all work. There is a large system of undergraduate activities and by all means a man should take part in them, but he should not forget relative values. When it comes to a show-down, he must remember what he is here for, and should conduct himself accordingly. ..."

Classified Advertisements

Rooms

CAMBRIDGE—28 Rockingham St. Comfortable rooms for TECH students. Automatic heat. Garage, \$3.50 week up. Uni. 7761-W.

Drawing Instruments

Two Deitzgen drafting sets. Reasonable price. \$5.00 ea. Box HH, THE TECH. Ken 5935.

If you read this ad, so will 2,000 others. Advertise through THE TECH's classified columns.

Which Activity Should I Join?

That's a big question in every freshman's life these days. First year students seeking the right answer should attend the

SMOKER

Given by
The Official Undergraduate News Organ



ON FRIDAY IN THE
NORTH HALL OF WALKER
FIVE O'CLOCK

The following Technology Alumni will give advice from their own experiences on extra curricular activities:

ARTHUR D. LITTLE, '85
ARTHUR W. WALKER, '82
ISAAC W. LITCHFIELD, '85

Mr. Frederick G. Fassett, instructor of the course in journalism at the Institute, will also speak.

Everyone interested is cordially invited to attend
REFRESHMENTS SERVED

PROFESSORS' ORDERS ARE THE MAIN SOURCES OF BOOKS IN LIBRARIES

Over \$16,000 Spent Annually for 4,000 New Volumes in Central Library and Its Branches.

In an interview with Miss Merian Smith, reference librarian of the Institute Central Library, a number of facts concerning the buying of books for the library were uncovered.

Three general phases of the question have to be considered: the amount of money available from the regular library budget and the endowment funds, the demands for books from the various departments, and the system by which the books are finally decided upon and entered upon the buying list.

16,000 Dollars Spent Yearly

On an average, 14,000 dollars from the library budget and 2,500 dollars from endowment funds is spent annually for reading material. About half of the appropriation from the library budget is used in obtaining periodicals and in binding worn books. The remainder and almost the entire endowment fund are invested in new books of which approximately 2,000 are bought. This makes the average price of the books about \$3.50. Between 2,000 and 3,000 more

books are acquired by binding and gifts.

According to Miss Smith the second thing to be considered is the most important and difficult problem, the dividing of the available money so as to fit the needs and demands of each department as nearly as possible. The number of students and professors in each course, the relative cost of books in the different courses, and also the relative need for new books, she stated, all have to be taken into account. By way of example, the departments of Chemistry and Business and Engineering Administration were cited. Miss Smith showed that new books in theoretical chemistry, while very expensive, are demanded infrequently as a rule, and that recent books on economics and business management are being continually called for. As a result more books are bought for Course XV.

In the case of the Electrical Engineering Department the large number of students taking the course is the governing factor, with the added fact that the Vail Fund is spent entirely upon electrical books.

Twofold Buying Process

The process by which the buying list is made is twofold. First, the

orders of the professors are taken into consideration. Each professor is given order blanks with spaces for titles, publishers' names, prices, and the professor's signature. In addition there is a space provided for the approval and signature of the department head. If the budget allotment for that department has not been exhausted the requested book is put on the list. Second, a set of Library of Congress catalogue cards of all new publications is sent to Miss Smith periodically. She goes through them and picks out books of value to the Central Library and sets them aside until time for the buying list to be sent to the publishers. Then whatever remains of the budget, if any remains, is spent in buying these books. In this manner the Institute Library is constantly being enlarged and kept up to date.

Virginia Gold Rush

The glittering hope for sudden wealth kept the department of metallurgy at the V. P. I. unusually busy during the early summer. But not for the reason one might suppose.

The search for gold and other "pay dirt" created a stir in Virginia in recent months, and so many requests for assays of ores came to the department that it became necessary to decline to make any such tests in the future.—*The Virginia Tech.*

New Students to Attend All-Tech Smoker on Oct. 6

(Continued from Page 1)

Committee and Ushers Named
The committee follows:

John B. Dunning, Chairman; Gorham K. Crosby, Assistant; Hoyt P. Steele, Assistant; Edward P. Bromley, Refreshments; Henry D. Humphreys, Entertainment; Henry N. Karr, Speakers; Marvin J. Silberman, Publicity; Louis P. Holladay, Treasurer; William H. Mills, Program.

The ushers include Walter H. Stockmayer, Chairman; Cason Rucker, John B. Ballard, Edward J. Heizer, Hal L. Bemis, Wesley H. Loomis, 3rd, Zay B. Curtis, Jr., John Howell, Jr., John Duff, 3rd, William W. Stueck, Henry J. Ogorzaly, G. Peter Grant, William W. Cross, Arthur H. King, Walton H. Marshal, Jr., Donald C. Gutleben, John B. Chapman, Thonet C. Dauphiné and John P. Carey.

Helps Nonchalance

Experiments at the University of Michigan prove that the ads are right—that the lighting of a cigarette actually aids in maintaining nonchalance in moments of stress.—*The Technique.*

HIGH PRESSURE USED IN ALCOHOL SYNTHESIS WORK

(Continued from Page 1)

synthesis of higher alcohols from water gas; Cryder did this for his thesis work. In these reactions the gases were mixed in the gas tank outside of the laboratory and the compressed by either the small R or the large Norwalk compressor which are capable of up to 200 atmospheres compression.

At present, an intensive study, in the form of thesis work, is being made to determine whether it is possible to supplant the use of sulfuric acid in the hydration of hydrocarbons to alcohols with the use of high pressures and catalysts. The reaction is made more complicated and the study therefore more difficult by the effects of side reactions and the polymerization of the olefins.

Seven Stages of Man

Baby carriage
Book and slate
Thoughts of marriage
Cannot wait
Necking car
Wrecking car
Perly gate
—*The Bradley Tech.*



1 ALWAYS
the finest tobaccos



2 ALWAYS
the finest workmanship



3 ALWAYS LUCKIES PLEASE



Why do we say "Always Luckies Please"? Well, one reason is that every Lucky is made of choice, ripe tobaccos—the Cream of the Crop. Another reason—Luckies are always round, firm, fully packed—with no loose ends to sputter and spark. Care-

ful examination and inspection by over 60 precision instruments and 17 alert scientists guarantee unfailing uniformity. That's why Luckies draw so easily, burn so evenly—always mild and smooth. And that's why—"Always Luckies Please!"

"it's toasted"

FOR THROAT PROTECTION—FOR BETTER TASTE